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| Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | | |
| | | | | Application Number | 10/779,331 | |
| | | | | Filing Date | February 13, 2004 | |
| | | | | First Named Inventor | Don Hannula | |
| | | | | Art Unit | 3765 | |
| Examiner Name | Larry D. Worrell, Jr. | | | | | |
| Sheet | 1 | of | 5 | Attorney Docket Number | TYHC:0128(P0402S-01A)FLE | |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|--------------------------|--|---------|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number-Kind Code ² (if known) | | | | |
| | A1 | US- | 4510938 | 04/16/1985 | Jobsis et al. | |
| | A2 | US- | 5119815 | 06/09/1992 | Chance | |
| | A3 | US- | 5217013 | 06/08/1993 | Lewis et al. | |
| | A4 | US- | 5267563 | 12/07/1993 | Swedlow et al. | |
| | A5 | US- | 5392777 | 02/28/1995 | Swedlow et al. | |
| | A6 | US- | 5413101 | 05/09/1995 | Sugiura | |
| | A7 | US- | 5482034 | 01/09/1996 | Lewis | |
| | A8 | US- | 5490523 | 02/13/1996 | Isaacson | |
| | A9 | US- | 5697367 | 12/16/1997 | Lewis et al. | |
| | A10 | US- | 5792052 | 08/11/1998 | Isaacson | |
| | A11 | US- | 5830137 | 11/03/1998 | Scharf | |
| | A12 | US- | 5879294 | 03/09/1999 | Anderson et al. | |
| | A13 | US- | 5902235 | 05/11/1999 | Lewis et al. | |
| | A14 | US- | 5916154 | 06/29/1999 | Hobbs et al. | |
| | A15 | US- | 6181959 | 01/30/2001 | Schollermann et al. | |
| | A16 | US- | 6216021 | 04/10/2001 | Franceschini et al. | |
| | A17 | US- | 6256524 | 07/03/2001 | Walker et al. | |
| | A18 | US- | 6263223 | 07/17/2001 | Shepherd et al. | |
| | A19 | US- | 6381480 | 04/30/2002 | Kuroyama | |

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|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
| | | Country Code ³ Number ⁴ Kind Code ⁵ (if known) | | | | |
| | B1 | EP1547515 | 06/29/2005 | Barts And The London National Health Service Trt | | |
| | B2 | WO0059374 | 10/12/2000 | Somanetics Corporation | | |
| | B3 | WO0176471 | 10/18/2001 | Johansson | | |
| | B4 | WO03071928 | 09/04/2003 | Neurophysics Corporation | | |
| | B5 | WO05010568 | 02/03/2005 | The Titan Corporation | | |
| | B6 | WO9001293 | 02/22/1990 | Gardosi | | |

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|-----------------------|-----------------------|--|--------------------------------|--|---|
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| | | Number-Kind Code ² (if known) | | | |
| | A20 | US- 6615065 | 09/02/2003 | Barrett et al. | |
| | A21 | US- 6748254 | 06/08/2004 | O'Neil et al. | |
| | A22 | US- 6811538 | 11/02/2004 | Westbrook et al. | |
| | A23 | US- 6934570 | 08/23/2005 | Kiani et al. | |
| | A24 | US- 6934571 | 08/23/2005 | Wiesmann et al. | |
| | A25 | US- 6985763 | 01/10/2006 | Boas et al. | |
| | A26 | US- 7001334 | 02/21/2006 | Reed et al. | |
| | A27 | US- 7027850 | 04/11/2006 | Wasserman | |
| | A28 | US- 7047054 | 05/16/2006 | Benni | |
| | A29 | US- 7047055 | 05/16/2006 | Boas et al. | |
| | A30 | US- 7054453 | 05/30/2006 | Boas et al. | |
| | A31 | US- 7054454 | 05/30/2006 | Boas et al. | |
| | A32 | US- 7072704 | 07/04/2006 | Bucholz | |
| | A33 | US- 7085597 | 08/01/2006 | Fein et al. | |
| | A34 | US- 7113815 | 09/26/2006 | O'Neil et al. | |
| | A35 | US- 7132641 | 11/07/2006 | Schulz et al. | |
| | A36 | US- 7171251 | 01/30/2007 | Sarsi et al. | |
| | A37 | US- 7181264 | 02/20/2007 | Wiesmann et al. | |
| | A38 | US- 7190999 | 03/13/2007 | Geheb et al. | |

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|-----------------------|--------------------------|---|-----------------------------------|---|--|----------------|
| | | Country Code ³ Number ⁴ Kind Code ⁵ (if known) | | | | |
| | B7 | WO9111137 | 08/08/1991 | Medical Physics | | |
| | B8 | WO9512349 | 05/11/1995 | Aarnoudse | | |
| | B9 | WO9817174 | 04/30/1998 | Cardiac Crc Nominees Pty. Limited | | |
| | B10 | WO9947039 | 09/23/1999 | Tuominen | | |
| | B11 | | | | | |
| | B12 | | | | | |

| | | | |
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| | | Number-Kind Code ² (if known) | | | |
| | A39 | US- 7204250 | 04/17/2007 | Burton | |
| | A40 | US- 7220220 | 05/22/2007 | Stubbs et al. | |
| | A41 | US- 7231240 | 06/12/2007 | Eda et al. | |
| | A42 | US- 7245953 | 07/17/2007 | Parker | |
| | A43 | US- 7248910 | 07/24/2007 | Li et al. | |
| | A44 | US- 7289837 | 10/30/2007 | Mannheimer et al. | |
| | A45 | US- 7297119 | 11/20/2007 | Westbrook et al. | |
| | A46 | US- 7305262 | 12/04/2007 | Brodnick et al. | |
| | A47 | US- 7313427 | 12/25/2007 | Benni | |
| | A48 | US- 7349726 | 03/25/2008 | Casciani et al. | |
| | A49 | US- 7367949 | 05/06/2008 | Korhonen et al. | |
| | A50 | US- 7376454 | 05/20/2008 | Casciani et al. | |
| | A51 | US- 7415298 | 08/19/2008 | Casciani et al. | |
| | A52 | US- 20030225323 | 12/04/2003 | Kiani et al. | |
| | A53 | US- 20040117891 | 06/24/2004 | Hannula et al. | |
| | A54 | US- 20040163648 | 08/26/2004 | Burton | |
| | A55 | US- 20050027207 | 02/03/2005 | Westbrook et al. | |
| | A56 | US- 20050059869 | 03/17/2005 | Scharf et al. | |
| | A57 | US- 20050070776 | 03/31/2005 | Mannheimer et al. | |

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| | | Number-Kind Code ² (if known) | | | | |
| | A58 | US- | 20050113656 | 05/26/2005 | Chance | |
| | A59 | US- | 20050188991 | 09/01/2005 | Sun et al. | |
| | A60 | US- | 20050261594 | 11/24/2005 | Banet | |
| | A61 | US- | 20050277819 | 12/15/2005 | Kiani et al. | |
| | A62 | US- | 20060195026 | 08/31/2006 | Casciani et al. | |
| | A63 | US- | 20060195027 | 08/31/2006 | Casciani et al. | |
| | A64 | US- | 20060211929 | 09/21/2006 | Casciani et al. | |
| | A65 | US- | 20060217604 | 09/28/2006 | Fein et al. | |
| | A66 | US- | 20060217605 | 09/28/2006 | Fein et al. | |
| | A67 | US- | 20060217606 | 09/28/2006 | Fein et al. | |
| | A68 | US- | 20060217607 | 09/28/2006 | Fein et al. | |
| | A69 | US- | 20060217608 | 09/28/2006 | Fein et al. | |
| | A70 | US- | 20060229510 | 10/12/2006 | Fein et al. | |
| | A71 | US- | 20060229511 | 10/12/2006 | Fein et al. | |
| | A72 | US- | 20060264726 | 11/23/2006 | Mannheimer et al. | |
| | A73 | US- | 20060264727 | 11/23/2006 | Mannheimer et al. | |

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| | A74 | US- 20060276700 | 12/07/2006 | O'Neil et al. | |
| | A75 | US- 20060281984 | 12/14/2006 | Mannheimer et al. | |
| | A76 | US- 20070032732 | 02/08/2007 | Shelley et al. | |
| | A77 | US- 20070149871 | 06/28/2007 | Sarsi et al. | |
| | A78 | US- 20070293746 | 12/20/2007 | Sarsi et al. | |
| | A79 | US- 20080009691 | 01/10/2008 | Parker | |
| | A80 | US- 20080045822 | 02/21/2008 | Phillips et al. | |
| | A81 | US- 20080076988 | 03/27/2008 | Sarsi et al. | |
| | A82 | US- 20080076990 | 03/27/2008 | Sarsi et al. | |
| | A83 | US- | | | |
| | A84 | US- | | | |
| | A85 | US- | | | |
| | A86 | US- | | | |
| | A87 | US- | | | |
| | A88 | US- | | | |
| | A89 | US- | | | |
| | A90 | US- | | | |
| | A91 | US- | | | |
| | A92 | US- | | | |

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